

102 ft. span tip

Aircraft skin: .0005" Mylar

transport breaks

balsa tip structure

1:1 gearbox

pitch arm

pitch cable

1.25" ID .032" wall CF drive shaft

blade retainer

2" ID .024" wall CF prop shaft

11 ft. dia. prop. 115 rpm at design pitch

freewheeling prop airspeed sensor

1 lb foam upper fairing

balsa-CF ribs

fuselage shell: molded Kevlar-epoxy

All-moving tail surfaces

Rohacell-Kevlar centering tabs

3.50"-2.25" ID CF tailboom

1.25"-1.0" ID CF tail spars

.015" Lexan windshield

Ventilation Ducting

.071" steel lift wire

FAI WORLD RECORD
Closed course distance
36.4 miles 2 hr. 14 min.

Empty weight 92 lb.

Gross weight 242 lb.

Span 114 ft.

Wing area 330 sq.ft.

Cruise speed 14 - 18 mph

Pilot power ~0.30 hp



Manuel Dubs 28 Feb 87

DAEDALUS
HUMAN POWERED FLIGHT TEAM

MICHELOB *Light Eagle*

WING_CENTER_SECTION: DAI 1335

PROP_SECTION: DAI 0735

Rohacell core

CF spars

Kevlar-epoxy shell

1 lb foam LE sheeting

2 lb foam rib

.25x.02" ply edge strip

3.50"-2.25" ID CF torsion tube

Rohacell-Kevlar-CF trailing edge

drive shaft

foam fairing

3:2 gearbox

castering NHL hockey puck

Sonar altitude sensor

prop pitch lever

aileron drive pulley

8" sprung mainwheel

stab drive pulley

rudder drive pulley

.032" braided Kevlar control cables

2.25" ID .024" wall CF

.75" OD Al. seat Nylon webbing

1.5" ID .024" wall CF

LCD airspeed & altitude display

pitch cable

